Dage Excel Series

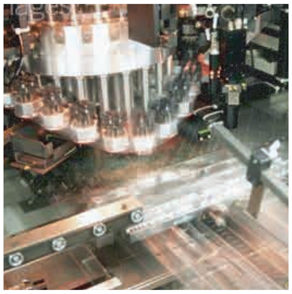
High Resolution Firewire Cameras

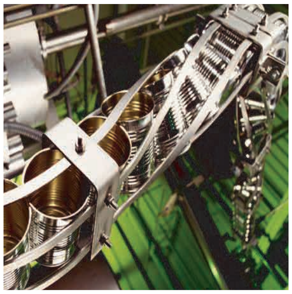
DAGE-MTI

dage technologies

With three models to choose from, the Dage Excel Series is both powerful and versatile.

Dage Excel Cameras are ideally suited for use in Machine Vision and Scientific applications.





Versatile, Powerful, and Affordable

The Excel Series cameras are high resolution firewire devices perfect in any setting from an OEM system to a scientific laboratory. The dynamic combination of the Excel, *plus* the powerful new Exponent software, ensures quality images viewable in multiple configurations, featuring exceptional detail.

	Feature	Benefit
Excel M	Sensor	Utilizes Kodak 4.19 million pixel sensor Exceptionally detailed images
	High Performance	Full 2048 x 2048 resolution @ 7.2 fps 12 bits for high dynamic range
Excel 16	Sensor	Utilizes Kodak 1.92 million pixel sensor Exceptionally detailed images
	High Performance	Full 1600 x 1200 resolution @ 16 fps. 12 bits for high dynamic range
Excel V	Speed	Utilizes Kodak, VGA sensor 640 x 480 @ 75 fps

In addition, all Excel models feature the following

Large Pixels (7.4um x 7.4um)	High sensitivity, high dynamic range, large well capacity.
IIDC Compliant	Adheres to standards set forth by IEEE 1394 Trade Assoc. Provides defined guidelines to ensure easy integration and consistency for software interface.
IEEE 1394 Firewire	Single-cable operation (no external power supply or control unit). Cable and PCI card included. Simple installation and use. Compatible with laptop computer.
ROI (Region of Interest)	Can provide full screen display of selected area of interest for detailed observation. Increases frame rate for dynamic images.
Binning	Color and monochrome binning. Increases sensitivity. Increases frame rate for dynamic images.
Firmware Update via Software	Provides seamless firmware upgrade through software. Eliminates camera down time.
Multiple Display Algorithms	User selectable for speed or quality enhancement.
User-Defined Memory Presets	Allows up to 15 different camera settings. Ensures retention and repeatability.
External Sync & Trigger	Allows synchronizing capture to external events
Versatile Exposure Control	Automatically adjusts gain and/or shutter to achieve correctly exposed image. Allows for exceptional image results, even under difficult lighting conditions.
Exponent Software	Full featured camera control software. Simple, easy-to-use instructions included.

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SPECIFICATIONS

	XLV	XL16	XLM
Sensor (Kodak Prog-scan Interline)	KAI-0340M	KAI-2020M	KAI-4021M
Effective Pixels HxV	640 x 480	1600 x 1200	2048 x 2048
Pixel Size	7.4um x 7.4um	7.4um x 7.4um	7.4um x 7.4um
Frame Rate	75 fps	16 fps	7.2 fps
Power (12V thru IEEE 1394)	<3.5W	<4.5W	<6W

Signal-to-Noise	58db
Software	Exponent capture software, Twain, 3rd party specific, SDK (UniBrain Fire-I API)
Operating System	Windows®XP, SP2
Options	Remote power supply, laptop kits
File Formats	Mono 8 Bit: TIF, JPG, GIF, PNG, BMP Mono 16 Bit: TIF, PNG Color 24 Bit: TIF, JPG, GIF, PNG, BMP Color 48 Bit: PNG
Standards	CE, FCC, part 15 class B, EN55103-1 Class B, EN55103-2
Dimensions	4" diameter, 2.5" deep
Weight	1.5 lbs.

Digital Output	12 bits
Digital Interface	IEEE 1394 FireWire, 6 pin; IIDC standard Version 1.31
Camera Firmware	Updated via software
ROI Scan	Continuously variable up to full resolution
Binning	Mono: 2x2, 4x4; Color: 3x3, 5x5
White Balance	Auto, Manual, Auto Tracking
Gain	Mono: 0 to +25db, Color: 0 to +21.5db
Viewing Modes	1:1, Fit to Window, Full Screen
Memory Presets	15 User Defined Presets plus factory default
Display Interpolation	5 user selected algorithms
Exposure/Integration	Up to 60 seconds. Auto Exposure, Auto Gain, Auto Shutter
External Trigger	Mode0: Asynchronous Reset (IIDC v1.31) Mode1: Bulb Shutter Mode (IIDC v1.31)
External Strobe	Set by Camera Integration Reset. Programmable Delay, Duration, Polarity
External GPIO	One Input, One Output. Software accessible. Control Power: +3.3VDC limited to 100mA
Additional Features	Timestamp, Histogram, Friendly Name
Lens Mount	C mount with adjustable back focus. F mount adapter optional.
Tripod Mount	1/4" - 20

Dage-MTI **219.872.5514**
Call for product information or for free product demos
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